

**IN THE ABSTRACT:**

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**ABSTRACT OF THE DISCLOSURE**

The present disclosure relates to a centrifuge having a vertical axis of rotation, and including a centrifugal drum having a feeding tube for material to be centrifuged, outlet nozzles, and an emergency off system connected in front of the centrifugal drum. The emergency off system includes a feeding system feeding particles into the centrifugal drum. The present disclosure also relates to a method of implementing an emergency off system of the centrifuge. The method steps include: providing an emergency off signal; feeding the particles into the centrifugal drum in response to the emergency off signal; and, wherein the particles plug the outlet nozzles.